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## LECTOTYPE ASSIGNMENTS FOR SEVERAL SPECIES OF THE GENUS *CULEX* IN SOUTHEAST ASIA

(DIPTERA: CULICIDAE)<sup>1</sup>

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During the summer of 1966, visits to European institutions with the purpose of studying types and other specimens of the mosquito genus *Culex* from Southeast Asia revealed the need to designate lectotypes for a number of species. Most of the lectotype assignments are included in Bram (Cont. Amer. ent. Inst. 2(1):1-296, 1967); however, the following species are not known to occur in Thailand and must, therefore, be treated independently.

*Culex (Culex) alis* Theobald (Monograph of the Culicidae 3:167, 1903). Lectotype hereby designated: syntype male (terminalia slide mounted), "Xmas Is., 13. XII. 02," [Christmas Island, Australian dependency], in the British Museum (Natural History).

*Culex (Culex) christophersii* Theobald (Monograph of the Culicidae 4:453, 1907). Lectotype hereby designated: syntype male (terminalia mounted and attached to pin), "India, Christophers, recd. from F. V. Theobald, 1907-29," in the British Museum (Natural History). Examination of the lectotype confirms the action of Barraud (The Fauna of British India, Diptera 5:420, 1934) in placing this name in synonymy with *Culex (Culex) fatigans* Wiedemann (= *pipiens quinquefasciatus* Say).

*Culex (Culex) quasipipiens* Theobald (Monograph of the Culicidae 2:136, 1901). Lectotype hereby designated: syntype female, "99, Sambalpur, Central Provinces, India, D. O'C. Murphy," in the British Museum (Natural History). Examination of the lectotype confirms the action of Barraud (op. cit.) in placing this name in synonymy with *Culex (Culex) fatigans* Wiedemann (= *pipiens quinquefasciatus* Say).

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*Culex (Culiciomyia) shebbearei* Barraud (Indian J. med. Res. 12:19, 1924). Although no type labels had been affixed to any specimens of this species in the British Museum collection, there are four specimens (2 ♂♂, 2 ♀♀) with the precise data as that given in Barraud's original description. There is little doubt that these four specimens represent at least part of the original type series and that the following lectotype assignment is valid. Lectotype hereby designated: male (terminalia slide mounted), "E. Himalayas: Kurseong, 4500 ft., Bred, IX 1922, P. J. Barraud, B. M. 1930.446," in the British Museum (Natural History).

*Culex (Culiciomyia) viridiventer* Giles (J. Bombay nat. Hist. Soc. 13:609, 1901). Lectotype hereby designated: syntype male (terminalia mounted and attached to pin), no data other than the syntype and lectotype labels, in the British Museum (Natural History).

*Culex (Culiciomyia) angulatus* Theobald (Monograph of the Culicidae 2:324, 1901). Lectotype hereby designated: syntype female, "Naini Tal, N. W. P., Col. Giles," in the British Museum (Natural History). Comparison of this lectotype with the type series of *viridiventer* confirms the action of Edwards (Bull. ent. Res. 4:235, 1913) in placing *angulatus* in synonymy with *viridiventer*.

*Culex (Acalleoymia) obscurus* (Leicester) (The Culicidae of Malaya:194, 1908). Lectotype hereby designated: cotype female, "Kuala Lumpur, Fed. Malay States, Dr. G. F. Leicester, 1912-35, 18/7/04, A," in the British Museum (Natural History). The lectotype was selected from a series of four cotype females and one cotype male. Unfortunately the cotype male is badly damaged and the terminalia has been removed but is apparently lost.

*Culex (Lophoceraomyia) flavicornis* Barraud (Indian J. med. Res. 12:45, 1924). Lectotype hereby designated: type male, "S. India: Nilgeor Hills, Oct. 1915 (Khazan Chand), Capt. P. J. Barraud, B. M. 1926-262," in the British Museum (Natural History).

*Culex (Lophoceraomyia) jenseni* (de Meijere) (Ann. bot. Gdn. Buitenz. Suppl. 3:922, 1910). Although no type labels were affixed to any specimens, series of specimens with precise data as indicated in the original description and which are undoubtedly syntypes have been deposited in both the Zoological Museum, Amsterdam University, Amsterdam and in the Rijksmuseum van Natuurlijke Historie, Leiden. Stone, Knight, and Starcke (A Synoptic Catalog of the Mosquitoes of the World (Diptera: Culicidae):234, 1959) listed the location of the type (sex and number not specified) as the "Rijksmuseum, Amsterdam," Stone (Proc. ent. Soc. Wash. 65:139, 1963) subsequently corrected this to "Division of Entomology, Zoological Museum, Amsterdam University." Colless (J. med. Ent. 2:303, 1965) listed the location of the type male as "Rijksmuseum." However, Colless (pers. comm.) copied this location from Stone, Knight, and Starcke (op. cit.) without reference to the corrected version in Stone (op. cit.). Considering this confusion, it is felt that the best procedure is to designate a lectotype as follows: syntype male (terminalia mounted and attached to pin), "Java, Tjibodas, uit Nepenthes, Jensen, 1909, No. 32," in the Zoological Museum, Amsterdam University.

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